

## in the news

### INSIDE

The women's volleyball team has gone 11-0 so far this year, and looks forward to a tournament bid. Coach Dave Castanon sums up this year's performance.

Frank Richardson '77 and Chris Svendsgaard '78, setting new personal records, led the Engineer cross country team to a victory over Williams and Tufts last Saturday at Franklin Park.

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### OUTSIDE

The Lecture Series Committee has announced that 1150 tickets have been sold and no seats are currently available for the guest lecture by Isaac Asimov scheduled for November 8 in Kresge.

Wellesley College has received a two-year grant of \$70,000 for the support of Project HERS (Higher Education Resource Services), an attempt to improve the status of women and minorities in higher education. The project, which was founded in 1972 and formerly housed at Brown University, operates a talent bank of women qualified for administrative and faculty appointments at all levels. It also provides search, referral and placement services, follow-up, academic career information services, and other information resources.

The World Series this year does not seem to be disrupting classes as much as it did last year when Red Sox fever struck. The series between the Yankees and the Cincinnati Reds currently stands at 2-0 in favor of the Reds. The third game, to be played in New York, will be televised tonight at 8:15 by NBC.

### THE TECH

The Tech held interim elections at an impromptu board meeting Sunday night due to the resignation of Mark J. Munkacsy '78 as Managing Editor. Munkacsy was elected Executive Editor for the rest of the volume and Rebecca L. Waring '79 was elected Managing Editor to fill the vacancy. Also elected was Kevin A. Wiggers '79 to the position of Night Editor. Peter Coffee '79 and Katy Gropp '80 were appointed Associate Arts Editors and Pat Thompson '80 Associate Night Editor.

## MIT physicist shares Nobel Prize

By Mark Munkacsy

Samuel Ting, Professor of Physics at MIT, was named yesterday morning one of the recipients of the 1976 Nobel Prize in physics for his pioneering work in the discovery of the J-psi, a sub-atomic elementary particle.

Ting and Stanford Professor of Physics Burton Richter jointly received the award on the basis of work each did independently, leading to the verification of the J-psi particle's existence.

Richter and Ting, who has been a professor at MIT since 1969, will share the Nobel prize in physics, which was established in 1901 and carries with it a cash prize of \$160,000.

The J-psi particle, or J particle as Ting's group calls it, was discovered in late 1974. A team of physicists from MIT's Laboratory for Nuclear Science (LNS), working with Ting at the Brookhaven National Laboratory in New York, discovered the particle by searching for the by-products of the disintegration of the J particle.

The team at Stanford under the direction of Richter — who received his doctoral degree at MIT — made the same discovery simultaneously at the Stanford Linear Accelerator Center by doing the opposite of what the MIT team did; the SLAC team studied the interactions which lead to the creation of J particles.

The identification of the J particle was soon followed by the discovery of a number of similar objects, all characterized by very heavy masses and long lifetimes.

The J particle is significant

since it gives strong evidence that elementary nuclear particles may not be as elementary as was previously thought. According to Professor of Physics Martin Deutsch, director of LNS, "the J particle gives another proof that ... elementary particles may be made of something more fundamental."

Many physicists now think that these "more fundamental" particles are particles called quarks. They believe that most matter is made up of two "ordinary" quarks; the possible combinations of these two quarks determine the characteristics of the most common elementary particles — electrons, protons, and neutrons. Within the last decade, the existence of an additional quark has been proposed, one with a property called "strangeness." This property is evident only in relatively rare nuclear interactions.

The J particle extends this idea by adding a fourth quark — one with "charm." It also paves the way for the discovery of new special properties, or "flavors" as some physicists call them. "Charm is one of the flavors of particles, but there may be others," Deutsch explained. Many researchers are now searching for additional nuclear "flavors."

Much of the difficulty in the work done by Ting and his associates lies in the extremely rare occurrence of the J particle. Professor Ulrich Becker, a member of the LNS team which discovered the particle, explained that the problem was similar to sorting out one particle from liter-



Professor of Physics Samuel Ting

ally billions which were flying about in the experiment.

The equipment built by the LNS group was capable of detecting one event of interest in a background of 100 million "uninteresting" events. It was this precision which led Ting to his most surprising finding: the relatively long life of the J particle, which was determined by the very small variance in the energy of the J particle. The combination of large mass and extremely well-defined energy implies a relatively long lifetime according to the Heisenberg Uncertainty Principle.

Deutsch explained the surprise

with an analogy. "Let's speak of 5-pound bags of sugar. You would not be surprised by a variation of an ounce or so between bags. But imagine we weigh these and find they all weigh within a few thousandths of an ounce of 5 pounds. You'd say, 'My God, there's someone measuring out sugar with a micro-balance!'"

Ting's work has given physicists a new direction for their work. Assistant Professor of Physics Min Chen, another member of the LNS team, pointed out that "before November of 1974 no one took these ideas seriously; now everyone in physics is working on it ... physics has changed."

## SACC cancels Friday night film series

By Kent Pitman

The Social Action Coordinating Committee (SACC) will abandon the film program which brought it into conflict with the Lecture Series Committee (LSC). SACC member Phil Moore '77 told *The Tech*.

According to Moore, the series has been cancelled because it has "become at this point too much work." He explained that SACC had been "running out of energy" trying to find acceptable alternatives to movies vetoed by LSC, trying to obtain LSC approval for the new films, and trying to publish a revised schedule far enough in advance for it to be of

value to potential customers.

A recent ruling by the Association of Student Activities — later upheld by the General Assembly — gave LSC an effective monopoly on weekend movies by allowing LSC to veto any movie selected by SACC for showing in its Friday night series.

Ironically, in the wake of LSC's protests to the competition offered by the SACC movie series, last Friday's LSC presentation of "The Paper Chase" drew overflow crowds at both showings, causing LSC to offer an unscheduled third showing later that evening; on the same night, SACC's two showings of

"Slaughterhouse 5" had an estimated combined attendance of only about 100 persons. Such statistics, however, "depend on the movie," said Moore.

When asked whether SACC planned to attempt a revival of its film program in the spring, Moore replied that no definite plans have yet been made. He said that if such a project were again attempted, the films were likely to be of a much more political nature, but stated that it would still be impossible for SACC to predict whether LSC would again voice objections. "I guess we'll see what happens."

Alfred Geller '79, a member of

the SACC movie committee, confirmed Moore's statements. Geller stated that he "didn't think that given the present state of affairs" it was worth the trouble to continue the series.

With the film series out of the way, said Geller, SACC will probably now focus its attention on the issue of experimentation with recombinant DNA.

SACC has already sponsored a forum to provide information to the public on the possible dangers involved in this and similar areas of research, and members are hopeful that they can organize a debate between local experts on the topic sometime before the end of November.

## Costs and benefits of 'Bottle Bill' are uncertain

By Linda Lampron

"If the Bottle Bill passes it could cost your family \$100 a year!" say the numerous signs in subway cars and on billboards. But whether the average family would actually gain or lose if the bill passes is a more complicated question.

The "Bottle Bill," a referendum question on the November ballot in Massachusetts, would require every beverage container for beer or soft drinks to have a minimum refund value of 5c, and would prohibit the sale of metal beverage containers with flip tops.

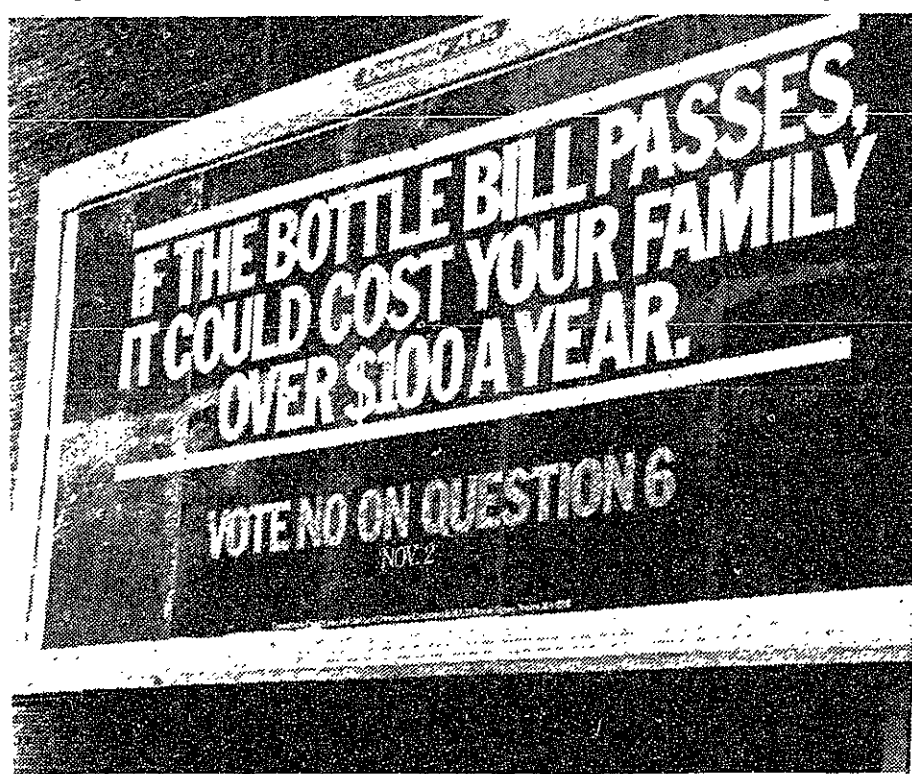
Neither provision of the bill would apply to containers for dairy products or natural fruit juices because these products do

not present a litter problem. The bill would not apply to containers which are bio-degradable.

Various groups have studied the effect on the consumer of similar measures already in effect in Vermont and Oregon. In both of these states polls indicate that the consumers and environmental groups are content with the way the law is working out, but show that small businessmen and the beverage industry are somewhat disgruntled about it.

The bill is intended to provide the consumer with an economic incentive to return empty beverage containers. It would reduce roadside litter and the amount of solid waste — but it is

(please turn to page 3)



The Environmental Protection Agency objected to the use of its name in signs similar to this, which are part of a campaign by beverage manufacturers to defeat the Massachusetts "Bottle Bill."

## notes

\* Be the representative couple from MIT in the 1976 American Cancer Society Dance Marathon! Dance and earn money for a good cause at the same time. The couple which earns the most donations will win a TV! The Marathon starts at 2:30pm this Friday, and runs for 24 hours. There's not much time left, so pick up your information in the UA Office, Rm. 401 of the Student Center.

\* The White House Fellowship program is designed to give rising leaders one year of firsthand, high-level experience with the workings of the Federal Government and to increase their sense of participation in national affairs. The program is open to US citizens from all fields who are not less than 23 and not more than 35 years of age. Employees of the Federal Government are not eligible, with the exception of career armed services personnel. Requests for applications for next year's program must be postmarked not later than Nov. 1, 1976. Application forms and additional information can be obtained by sending a postal card to the President's Commission on White House Fellowships, Washington, D.C. 20415.

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can not adequately explain three of our present technologies: a radar trap, a laser, and the ISR (Intersecting Storage Rings at CERN).

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The Doppler changed frequencies are not just apparent they are very real and a laser increases the accuracy of relativity theories by a factor of 320 trillion. We should stop spreading darkness in science with light as the science student of today invests too much time and money learning these old theories. — JW Ecklin

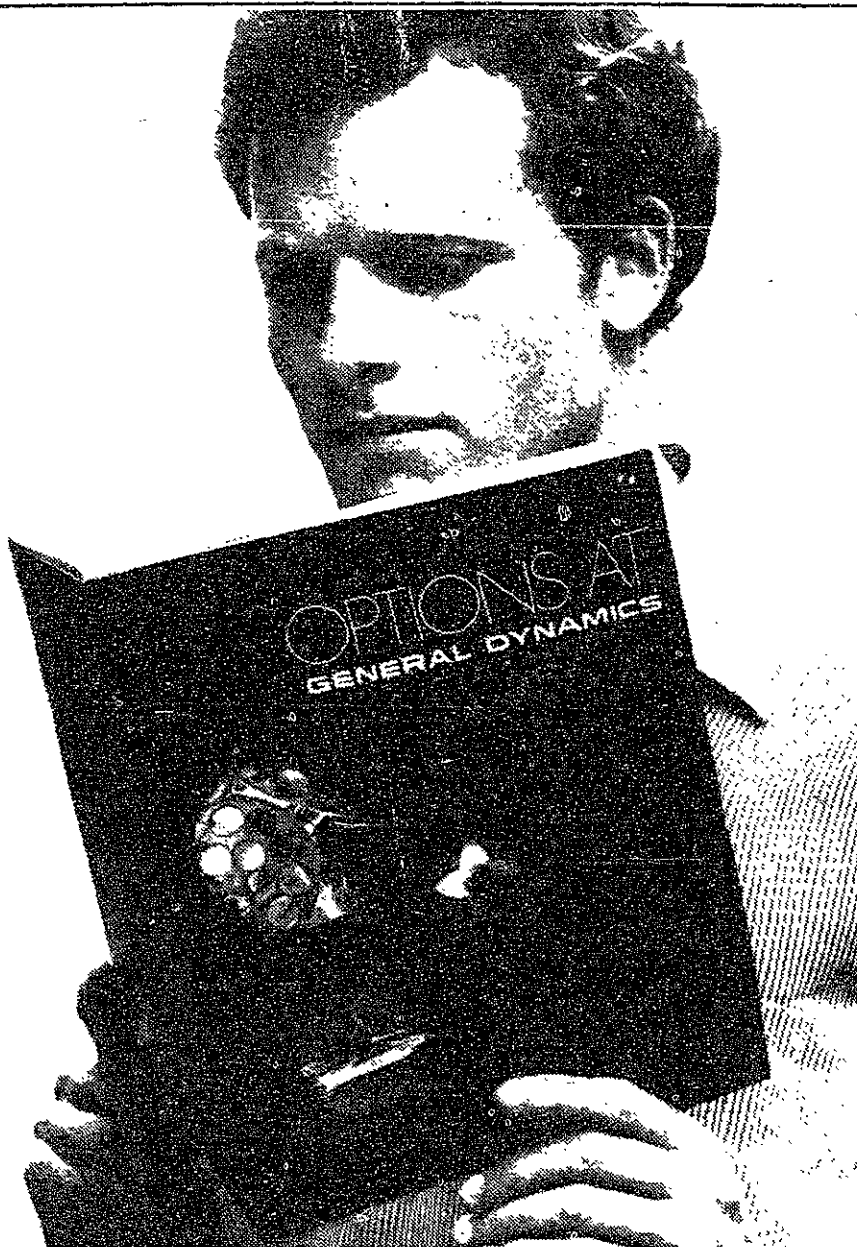
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# 'Bottle Bill' results unclear

(continued from page 1)

difficult to tell by how much until after the law is passed.

If the bill passes, some jobs will be eliminated, but some new ones will be created. The exact balance between jobs created and destroyed will depend on industry's reaction to the situation. The most frequently cited estimates forecast that an equal number of jobs will be gained and lost, but that the new jobs will be lower paying.

Some sales will be lost if the bill passes because of consumer reluctance to pay the deposit, and costs may rise because industry will be forced to dismantle "can lines" and install equipment that can handle refillable cans or bottles.

In a study done in 1972, however, the president of Coca-Cola said that the cost of providing beverages in non-returnable containers is 30 to 40 per cent more than the cost of providing returnables.

Under the bill, consumers would lose some "freedom of choice" — they would not be able to choose the convenience of throwaways. However, consumers do not always have the freedom to choose returnable bottles now, since many retailers do not handle such bottles.

Flip top cans will be prohibited by the bill because of the injuries they cause — last year there were over 300,000 injuries in the United States sustained from

flip tops and metal containers.

## EPA Objects

The Environmental Protection Agency (EPA) has objected to the use of its name in advertisements, which claim that the Bottle Bill will cost a family \$100 a year and say they are based on "EPA and industry data." The opponents apparently used EPA studies of the Vermont Bottle Bill to determine how many containers the average Massachusetts family would buy and then assumed that consumers in this state are sloppier than those in Vermont and would only

return 43 per cent of the containers, compared to the 90 per cent returned in Vermont. The forfeited deposit on the remaining 57 per cent would amount to \$100 per family.

This bill is one attempt to control the proliferation of disposable containers and to restrict the waste of limited natural resources. It will cost someone something, but nobody can predict whom or how much.

The bill is a new approach to an old question. Four states — Massachusetts, Maine, Michigan, and Colorado — will have to decide on it in November.

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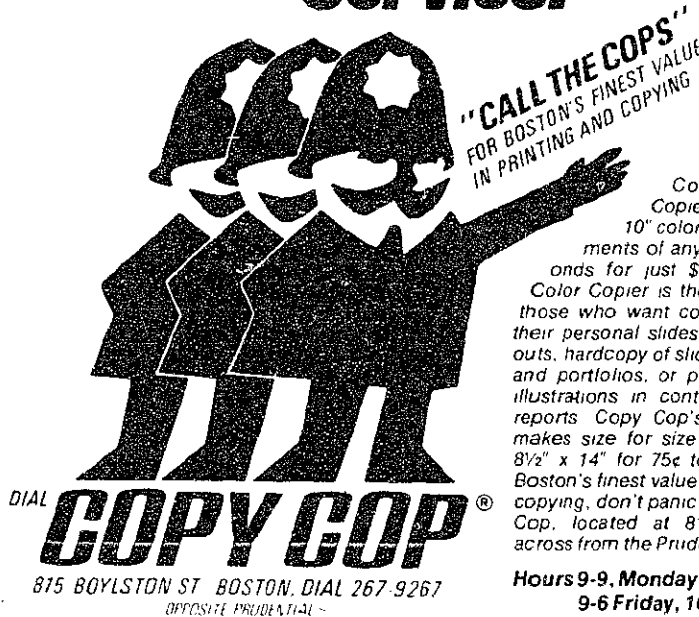
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## sports

# Harriers tip Tufts, Williams

By Dave Dobos

Racing to its best dual meet performance in years, the MIT cross country team soundly defeated Williams and Tufts last Saturday at Franklin Park. Frank Richardson '77 and Chris Svendsgaard '78, taking individual honors, provided the one-two punch for the Engineers.

MIT placed six in the top ten and came through with a low score of 24 points, its finest of the season. Williams and Tufts trailed with 39 and 73, respectively.

Richardson returned to his winning ways in impressive fashion, running a personal best 24:20 over the 5.0-mile course. Not only was it the fastest time of a New England Division III athlete this fall, but it certainly ranks among the top in the country for the small college division. Richardson's effort was seven seconds faster than the winning time at the Division III Nationals here last fall.

The next five MIT competitors also ran personal bests. Svendsgaard, in placing second, sped through in 25:06. No MIT cross country team has ever been blessed with two such fine athletes simultaneously.

Sophomore Barry Bayus continued his outstanding efforts, coming in fourth overall in the time of 25:25. Freshmen Lenny Nasser and Dave Westenberg rounded out the scoring five, placing eighth (25:59) and (26:01), respectively. Seniors John Krolewski (26:11) and Steve Keith (26:16) ran extremely well, proving that the MIT seven that will compete in the upcoming championship meets will contain a great deal of depth.

The 15 point margin was quite an impressive victory. Williams had been undefeated up until that time and had also run a good race against MIT. The Engineers, however, whose 7-1 dual meet final record is MIT's best since 1968, were simply too good for the Williams squad.

Boston State's coach Billy Squires, who chairs the selection committee which chooses the New England area small colleges to compete in the Division III Nationals in Cleveland next month, stated that MIT ranks among the top three (along with Lowell and Brandeis) in the six state area. MIT has not received an official bid to the Nationals

yet, but the Engineers have been under close scrutiny all season and have performed well in every appearance. Only the 1974 MIT baseball team has ever been invited to post-season competition at the national level.

Noting that next Saturday's meet is no longer considered the Division III qualifier, MIT coach Pete Close said, "There's no particular meet we'll have to prove ourselves." The Engineers have fared progressively better under constant evaluation. "We won't duck any competition," Close added, referring to the regional championship meets over the next three weeks. MIT has already proven itself. Now the Engineers want to knock off some teams that are rated above them.

The junior varsity finished its dual meet season at 5-3. Senior Jack Reeves paced MIT to a split with Williams and Tufts, racing to a fine 16:51 over the 3.1-mile course.

Today, the Engineers compete in the Greater Bostons at Franklin Park. Besides MIT, teams from Harvard, Boston College, Boston University, Northeastern, Tufts, and Brandeis will participate.



MIT's All-American Frank Richardson '77 ran a blazing 24:20 over Franklin Park's 5.0-mile course to lead the Engineers' varsity cross country team to a lopsided double victory over Williams and Tufts.

# Women's volleyball undefeated

By David Castanon

(David Castanon is the coach of the women's volleyball team.)

Highlighted by victories over highly-touted Bridgewater State College and U Mass at Amherst, the women's varsity volleyball team has compiled a perfect 11-0 match record so far this season. The JV team has achieved a 4-4 record.

MIT started the season with eight returning letter winners, losing only one starter from last year's Massachusetts Division II championship team. An infusion of new talent has improved the overall program, with several promising freshmen on the JV. The schedule this year was strengthened by the addition of perennial state Division I powers Bridgewater, Springfield and U Mass. After last year's successful (17-1) season against local competition, the MIT squad is looking forward to competing on this advanced regional level.

The season started on the right foot Sept. 25 when MIT traveled to Keene, New Hampshire, for a tournament. Although it was early in the season, the squad showed good form in trouncing Franklin Pierce College 15-4, 15-2 and Gordon College 15-2, 15-10 to reach the finals against strong Keene State. MIT's superior skills were the decisive factor in that match, a 15-4, 6-15, 15-5 victory. The JV squad was particularly impressive in this tournament, sweeping its matches without losing a single game.

On October 7, MIT traveled to Boston College for a tri-match including Salem State. All three teams were undefeated at this point. After a 15-0 first-game victory over Salem State, MIT lost the second game 11-15 and strug-

gled to a 15-13 victory in the deciding game. The squad regained its poise in the second match, beating BC convincingly 15-6, 15-8. The JV did not fare as well, losing both matches, but coach Bob Cassels was pleased with their hustle and disciplined play.

October 9 was considered one of MIT's crucial dates, as the Engineers faced metropolitan rival ENC, powerful Bridgewater, and an improved Keene State. After a slow start, MIT's patterned play proved decisive over a ragged ENC squad. The Engineers then faced home team Bridgewater, a school ranked as one of the top five New England teams. In the face of such strong competition MIT played its finest match so far, humiliating a taller, physically stronger Bridgewater 15-3, 15-3. The Engineers played a superb team game, combining precision passing, accurate setting, powerful spiking, and outstanding defensive plays. Outstanding individual efforts came from setters Lisa Albright '78 and Sue Coppersmith '78, and spikers Karyn Altman '78, Lisa Jablonski '77, Sheila Luster '78, and Kathy Mensler '77. In an anticlimactic match, MIT beat Keene State 15-2, 15-6.

In an uneventful match Tuesday, October 12, the varsity overwhelmed Babson College 15-0, 15-2. The JV also won, 15-6, 12-15, 15-7. On Saturday, October 16, MIT faced Division I schools U Mass and host Northeastern. The varsity continued its winning ways, besting U Mass 15-12, 15-4, and Northeastern 15-9, 15-8. Again, MIT won by playing an excellent team-oriented game, with Albright and Michelle Roybal '79 setting the offense.

The JV was less fortunate, losing in straight sets to both opponents.

The victories over Bridgewater and U Mass have enhanced MIT's chances for a post-season bid to the EAIAW Eastern Zone Championships. The team has clearly shown the potential to compete with the very best colleges in New England, even though MIT is a small college and many of its opponents are large (having more than 3,000 women students). This invitation represents the team's goal for the season, and if the present level of play continues, it should be forthcoming.

## sporting notices

Entry cards for IM basketball will be due by Friday, October 22, at 3pm in the IM Manager's Office (W32-131). Rosters will be due on Friday, October 29. Each team must have at least 8 players on its roster. Each player must have an athletic card and may play for only one team. Competition will begin on Sunday, November 7 in A, B, C and D leagues.

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